

II.        CLAIMS

1            1.    A body implantable stimulator for body  
2 tissue comprising:  
3            means for measuring a physiological  
4 parameter;  
5            means for monitoring electrical activity in  
6 said body tissue;  
7            means responsively coupled to said measuring  
8 means for computing a variable time interval based upon  
9 said physiological parameter as measured by said measuring  
10 means; and  
11           means responsively coupled to said  
12 monitoring means and said computing means for generating  
13 an electrical stimulation pulse if said monitoring means  
14 does not sense a predetermined electrical event during  
15 said variable time interval.

1            2.    A body implantable stimulator according to  
2 claim 1 wherein said monitoring means further comprises:  
3            a sense amplifier.

1            3.    A body implantable stimulator according to  
2 claim 2 wherein said physiological parameter is molecular  
3 oxygen level in venous blood.

1            4.    A body implantable lead according to claim  
2 1, 2, or 3 wherein said predetermined electrical event  
3 further comprises an R-wave.

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- 1/ <sup>3</sup>~~1~~ 2 <sup>3</sup>~~8~~. A demand heart pacemaker according to claim  
2 ~~8~~ or ~~7~~ wherein said adjusting means further comprises  
3 means for increasing the escape interval.

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